



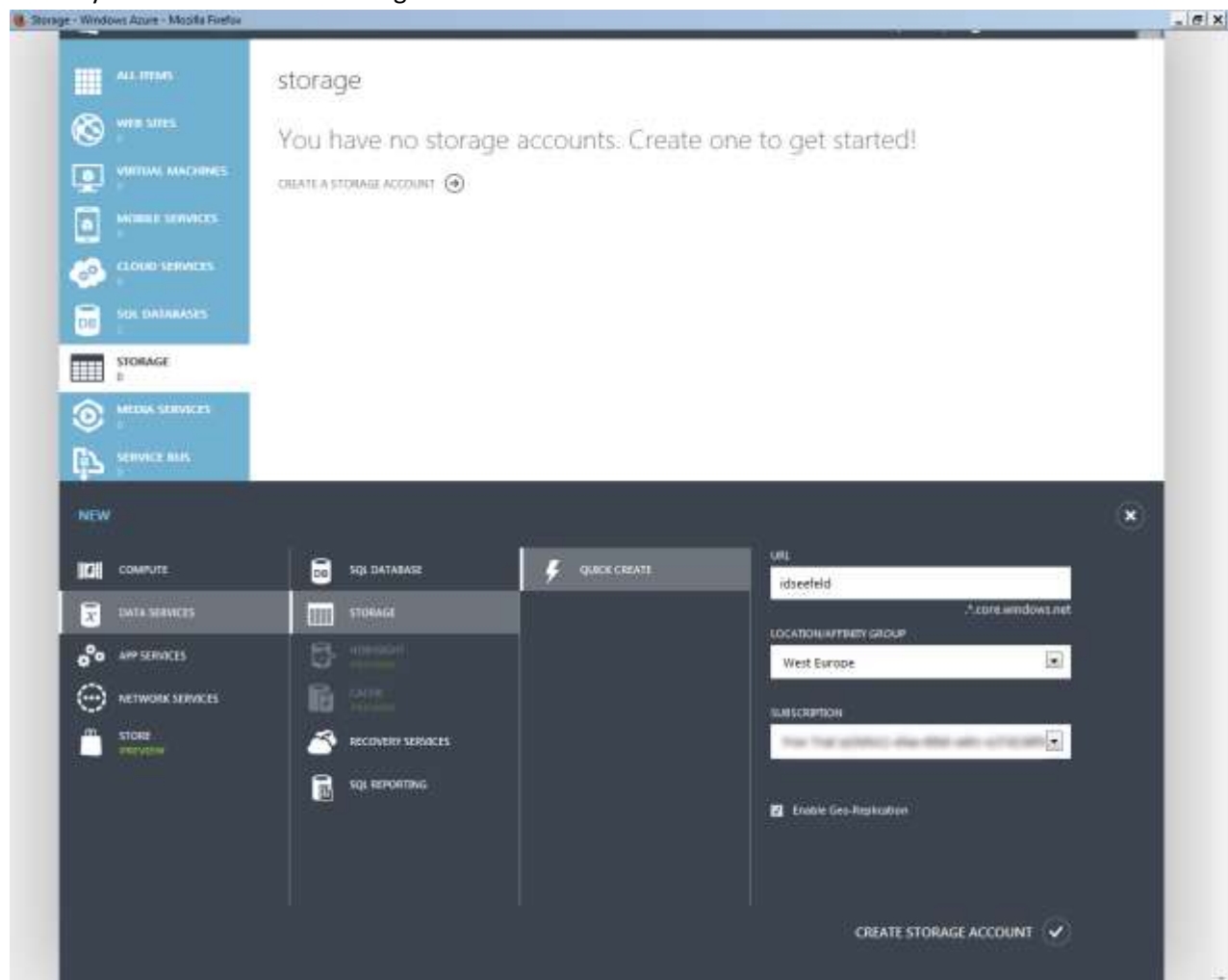
Azure Blob Storage Provider Documentation

What is the Azure Blob Storage Provider for Umbraco?

The Azure Blob Storage Provider replaces Umbraco's default provider for media files. **Full trust is required!**

The following steps show how to setup the ABSP:

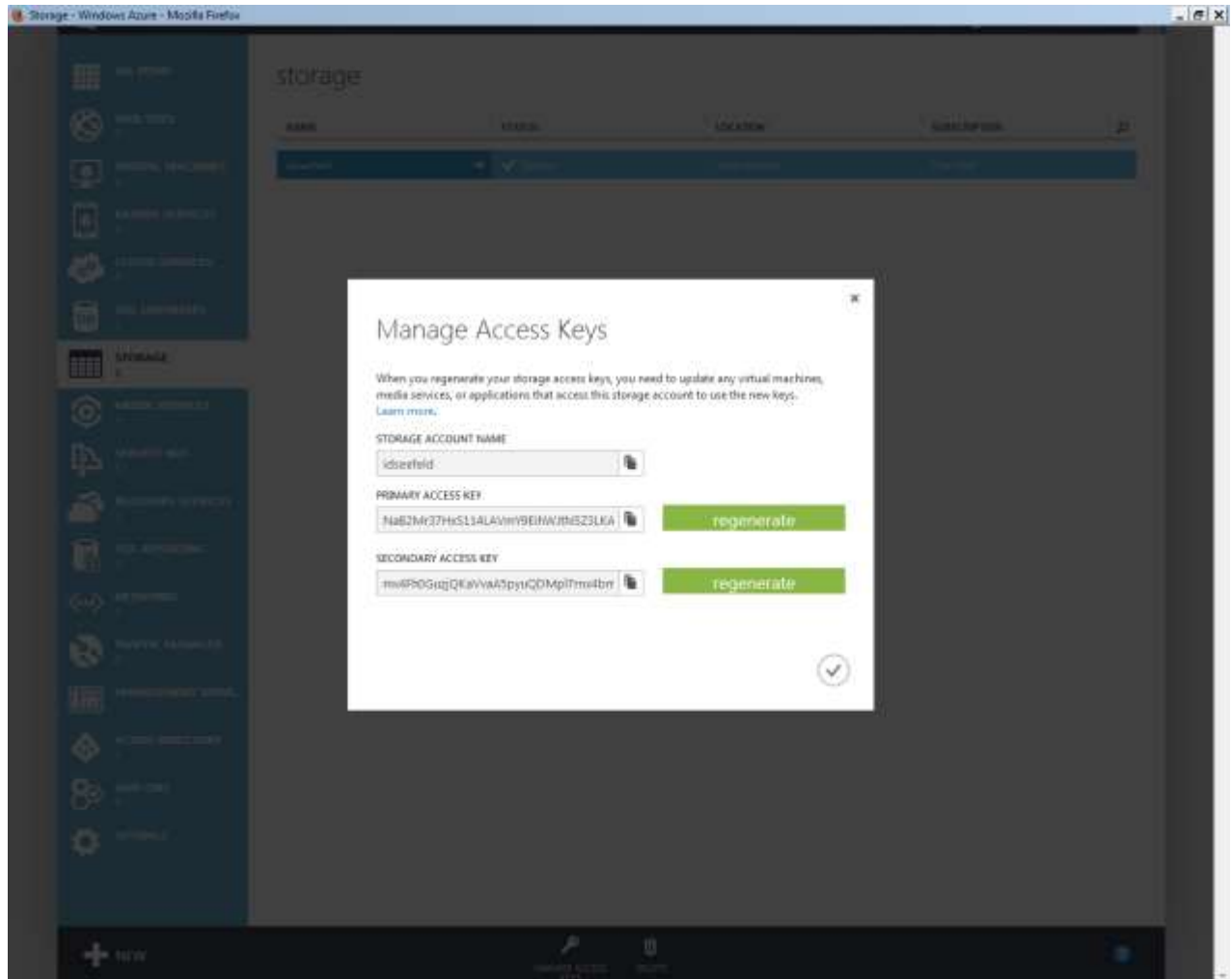
1. At first you create the Azure storage.



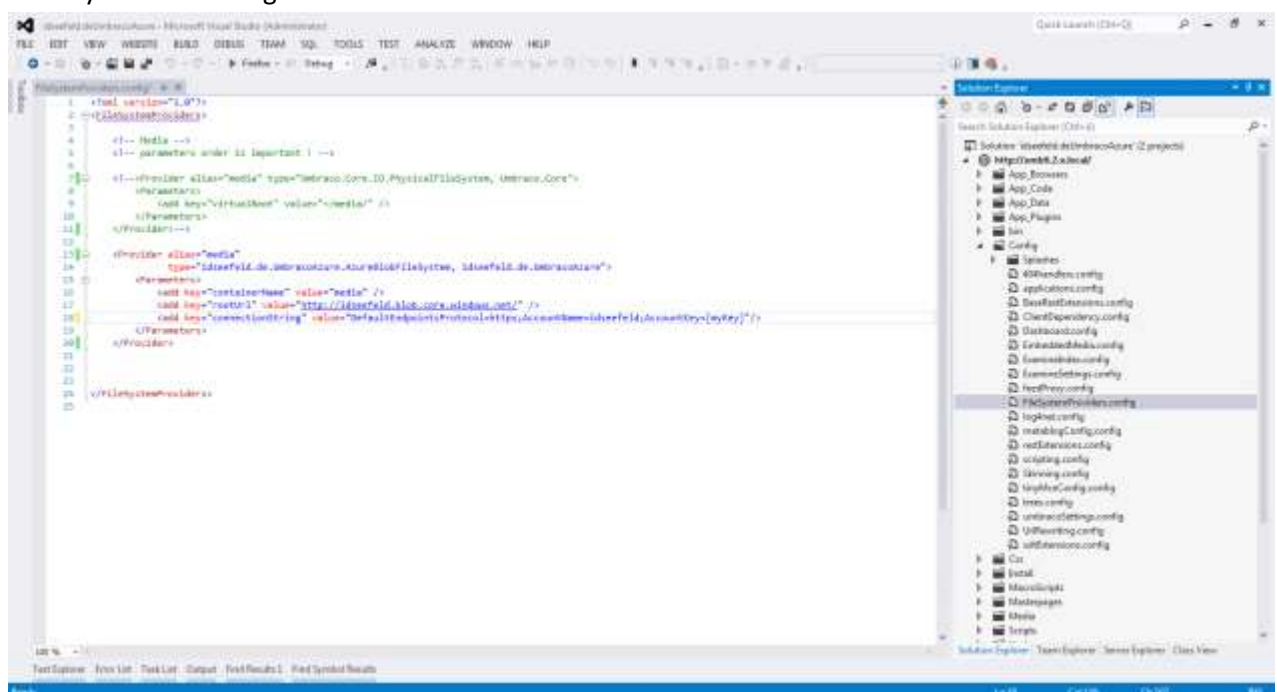
The Result



- Copy one of the two generated keys.



- Open file `~/Config/FileSystemProviders.config` of your Umbraco installation and paste your account name and key into the configuration:



```

<?xml version="1.0"?>
<FileSystemProviders>
  <!-- Media -->
  <!-- parameters order is important ! -->

  <Provider alias="media"
            type="idseefeld.de.UmbracoAzure.AzureBlobFileSystem,
idseefeld.de.UmbracoAzure">
    <Parameters>
      <add key="containerName" value="media" />
      <add key="rootUrl" value="http://[myAccountName].blob.core.windows.net/" />
      <add key="connectionString"
value="DefaultEndpointsProtocol=https;AccountName=[myAccountName];AccountKey=[myAccountKey]"/>
      <add key="mimetypes" value="woff|application/x-font-woff;mp3|audio/mpeg3" />
      <add key="cacheControl" value="*|public, max-age=31536000;js|no-store" />
    </Parameters>
  </Provider>
</FileSystemProviders>

```

Since package version 1.0.7 you can add mimetypes. Separate each type description by ; (semicolon) and file extension (without leading dot) from header string by | (pipe). By default the mimetypes are taken from your website configuration. But you can override these if you like.

Cache-control can be configured since version 1.0.10. Add your settings to the parameters with key="cacheControl". Start with the wildcard (*) setting and separate the file type extension by | (pipe) from the cache-control settings. Separate each file type | cache-control group by ; (semicolon).

Allowed cache-controls are:

public *or* public, max-age=12345678 (*or simply*: max-age=12345678)

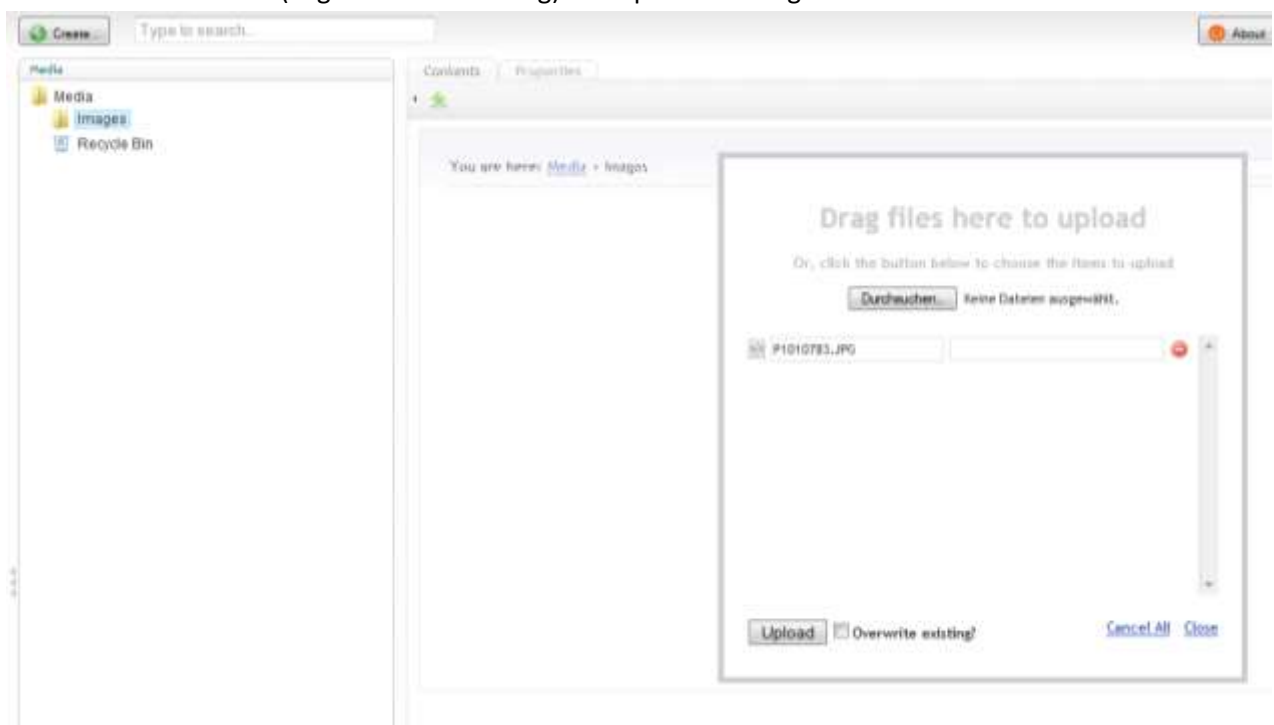
private *or* private, max-age=12345678

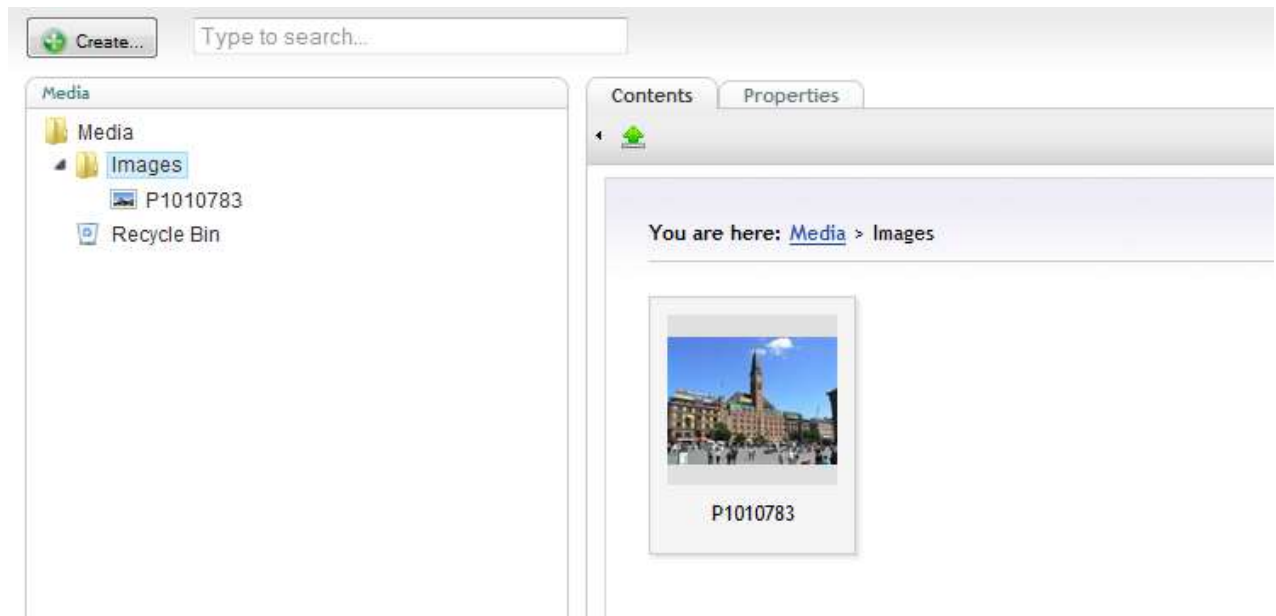
no-store

no-cache

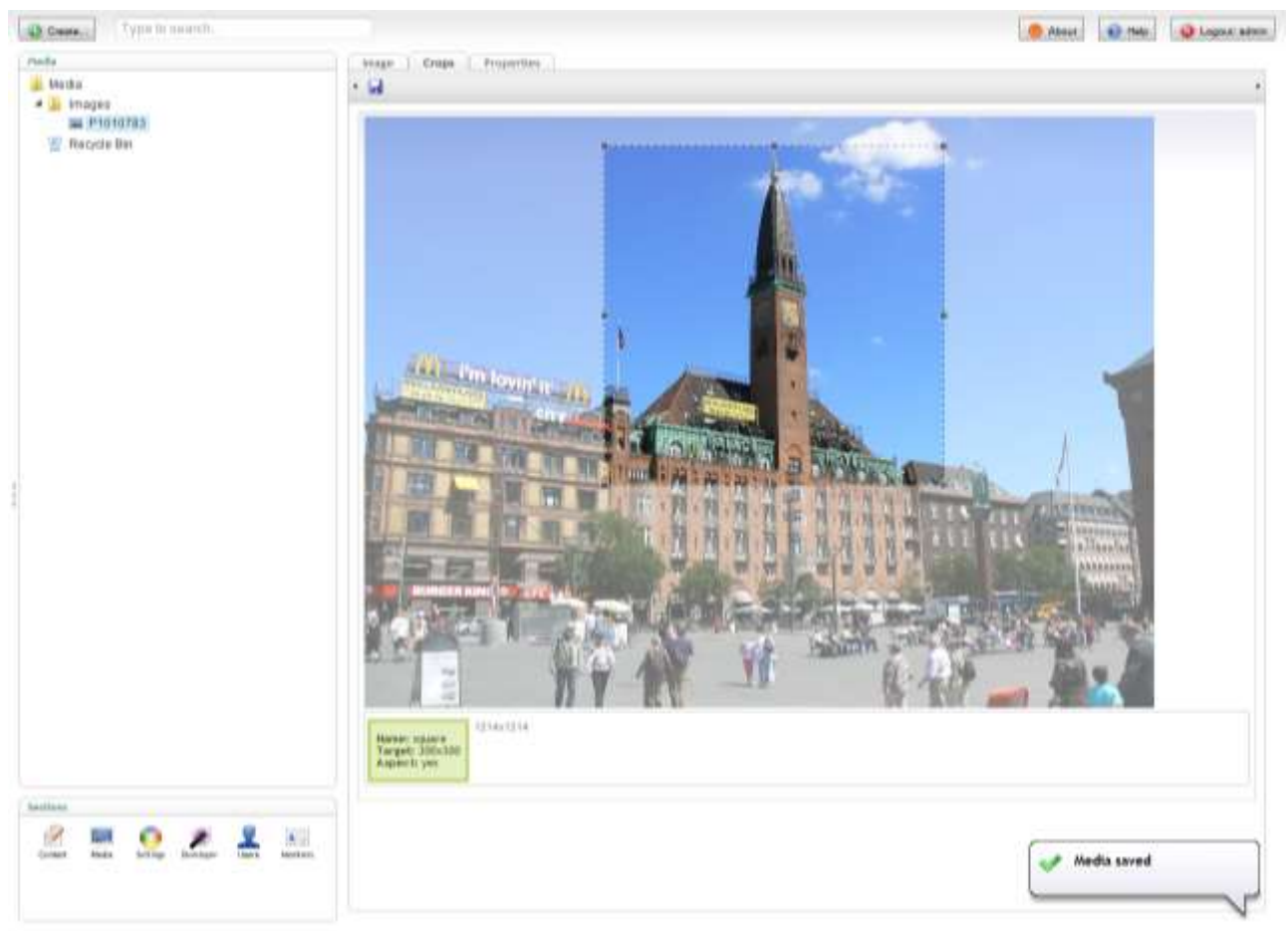
The max-age value is defined in seconds - i.e. 31536000 means one year (60 x 60 x 24 x 365).

4. Restart the web server (e. g. touch web.config) and upload an image.

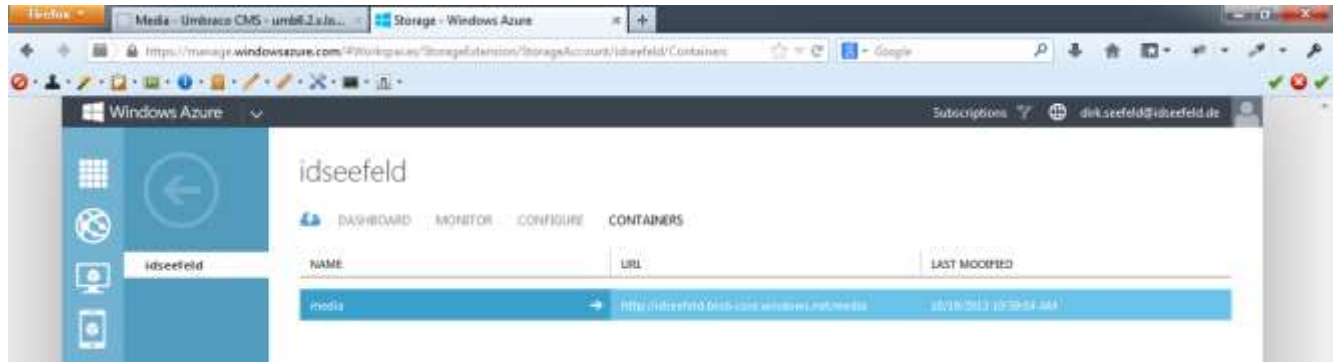




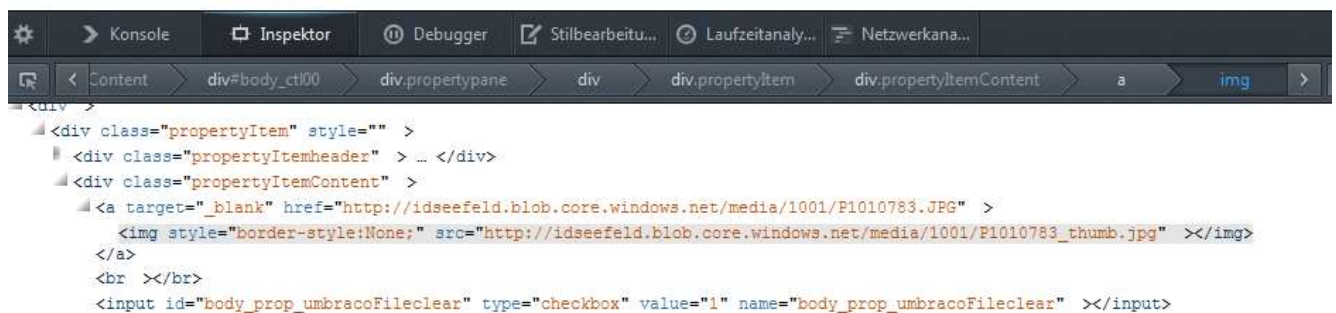
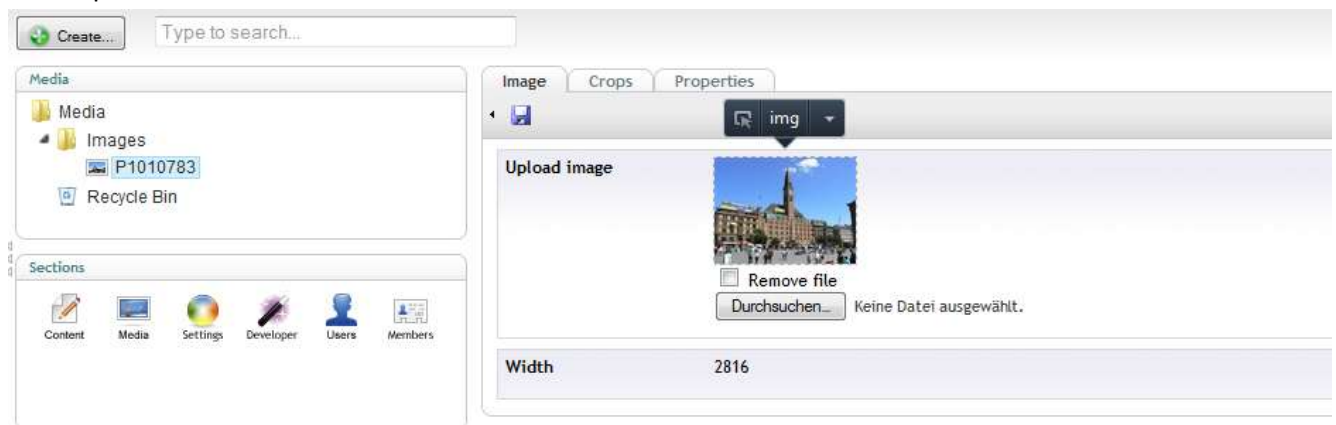
In my example I have previously installed the [Image Cropper Extended](#) and defined crops for media and content (for details see [Image Cropper Extended documentation](#)). *Just to show that it works!*



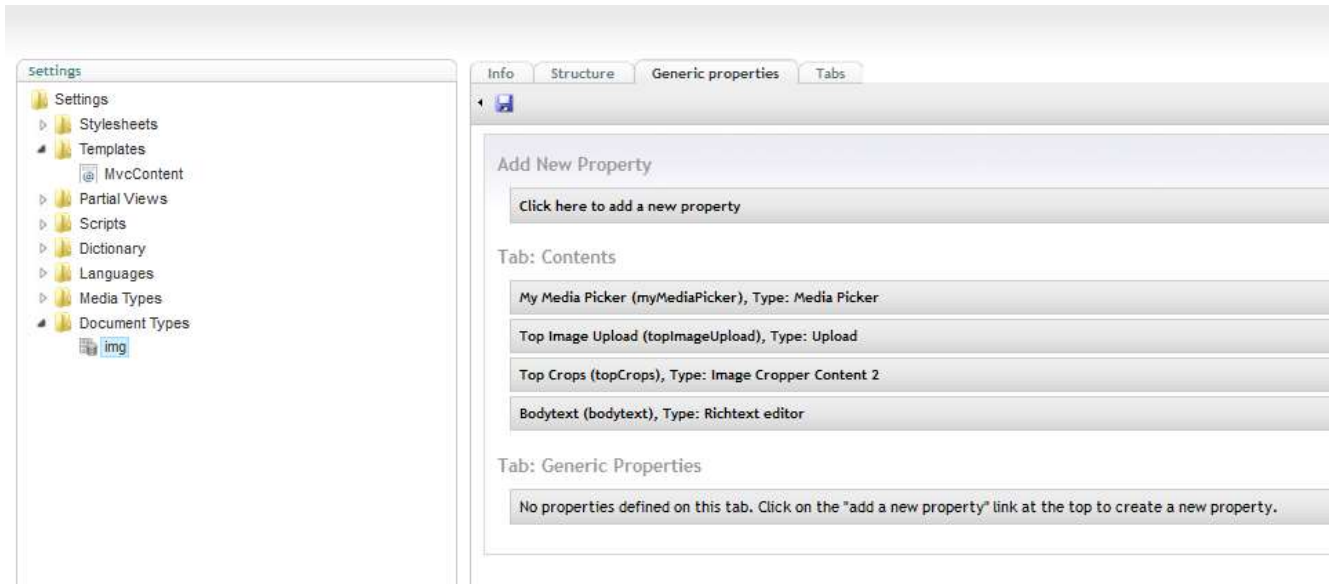
5. Check that your uploaded images are in the cloud ...



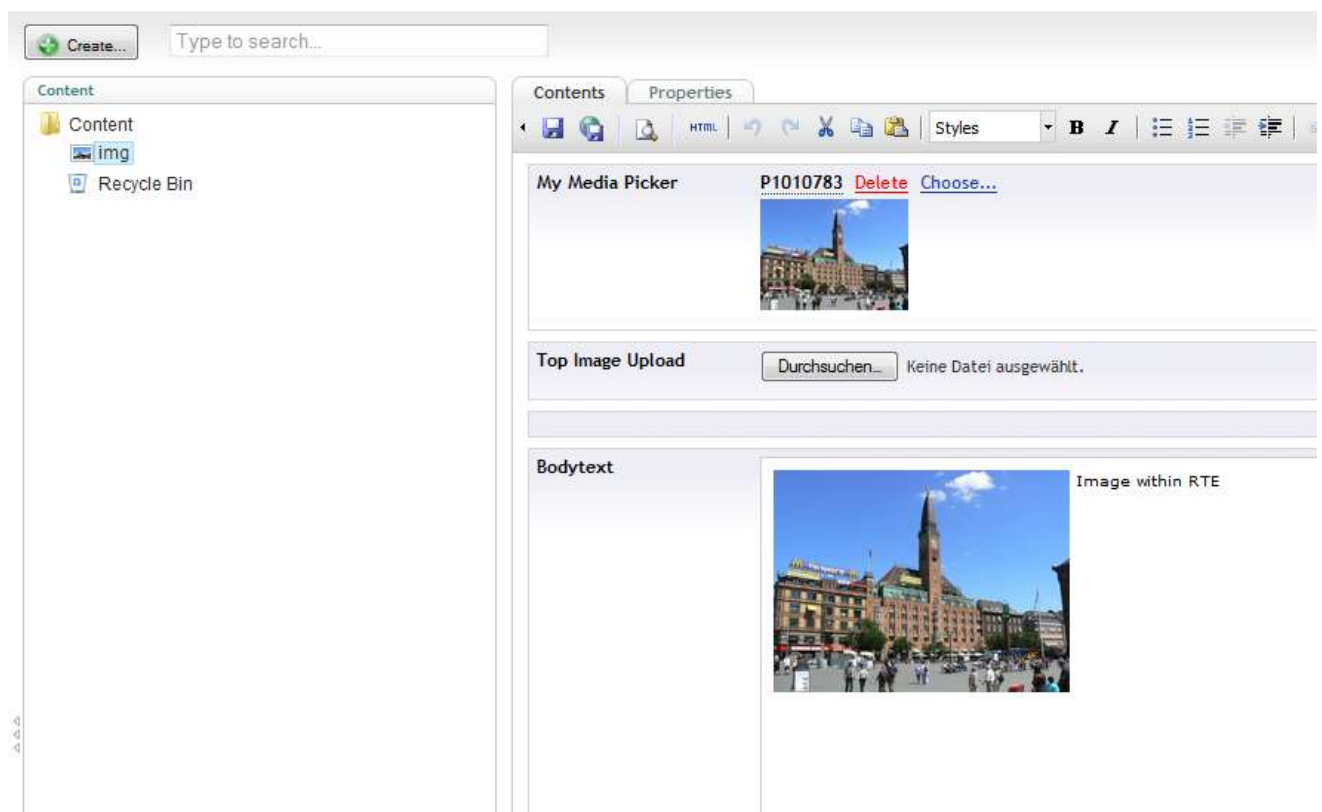
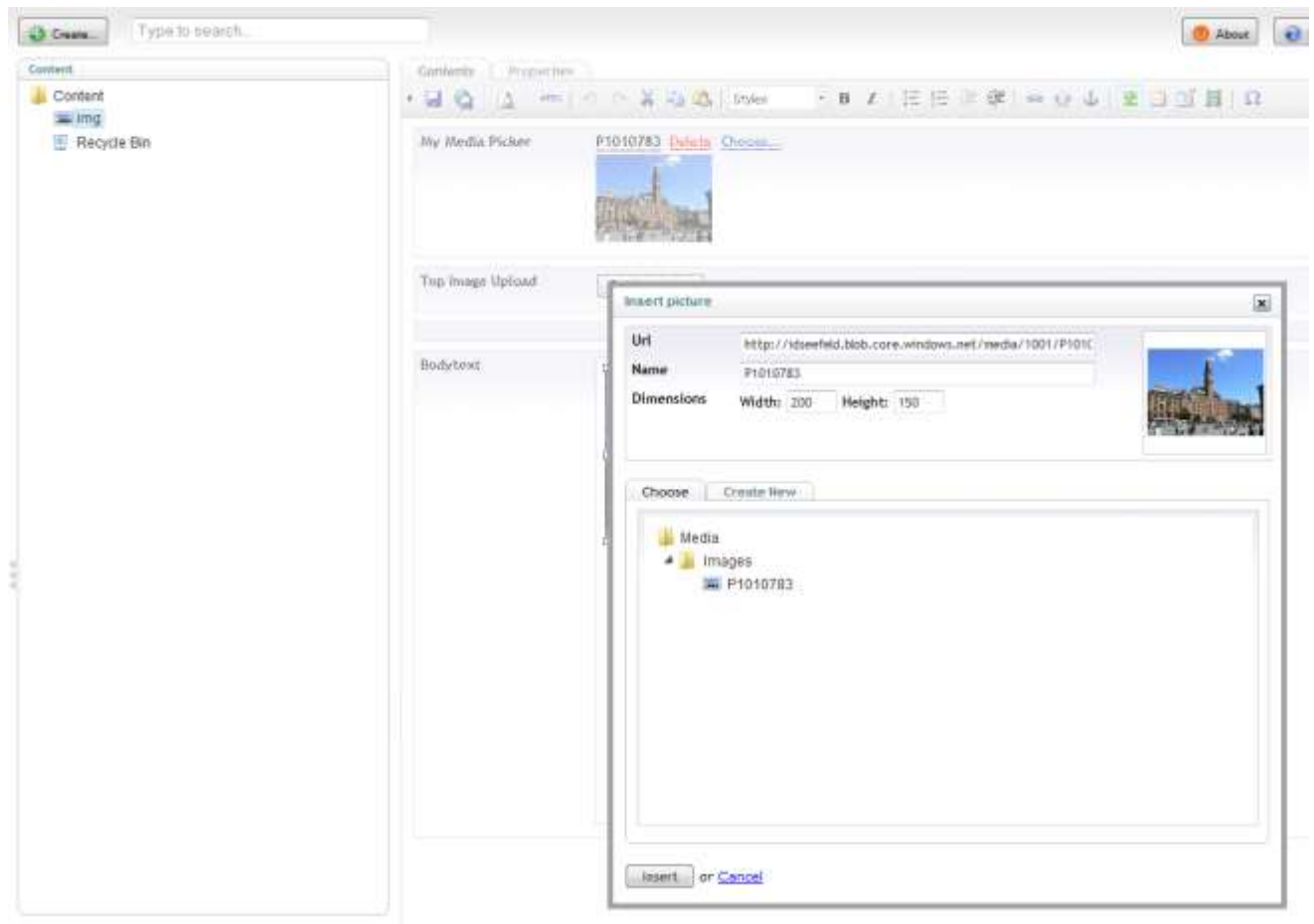
6. ... or explore the html.



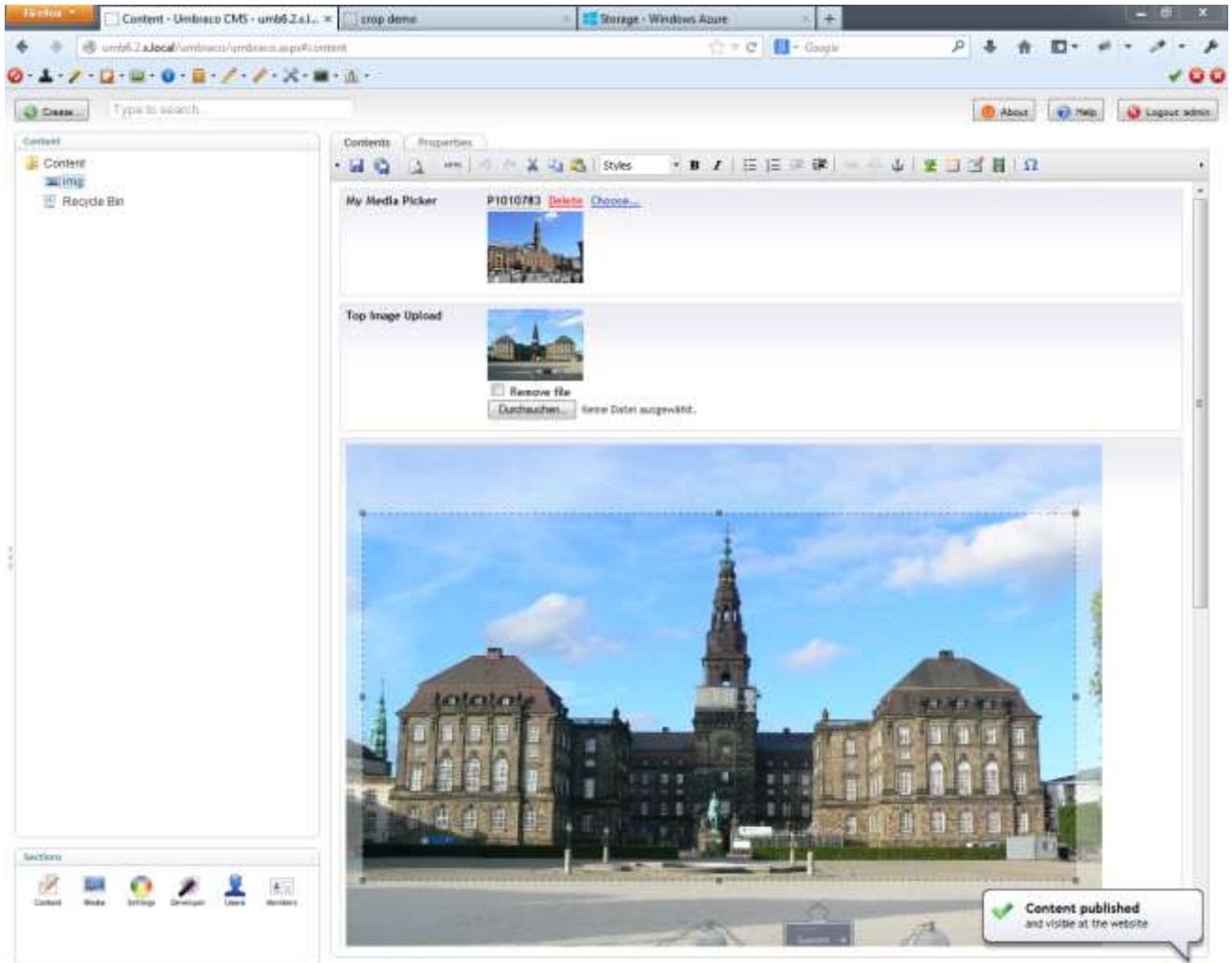
7. Example of a document type



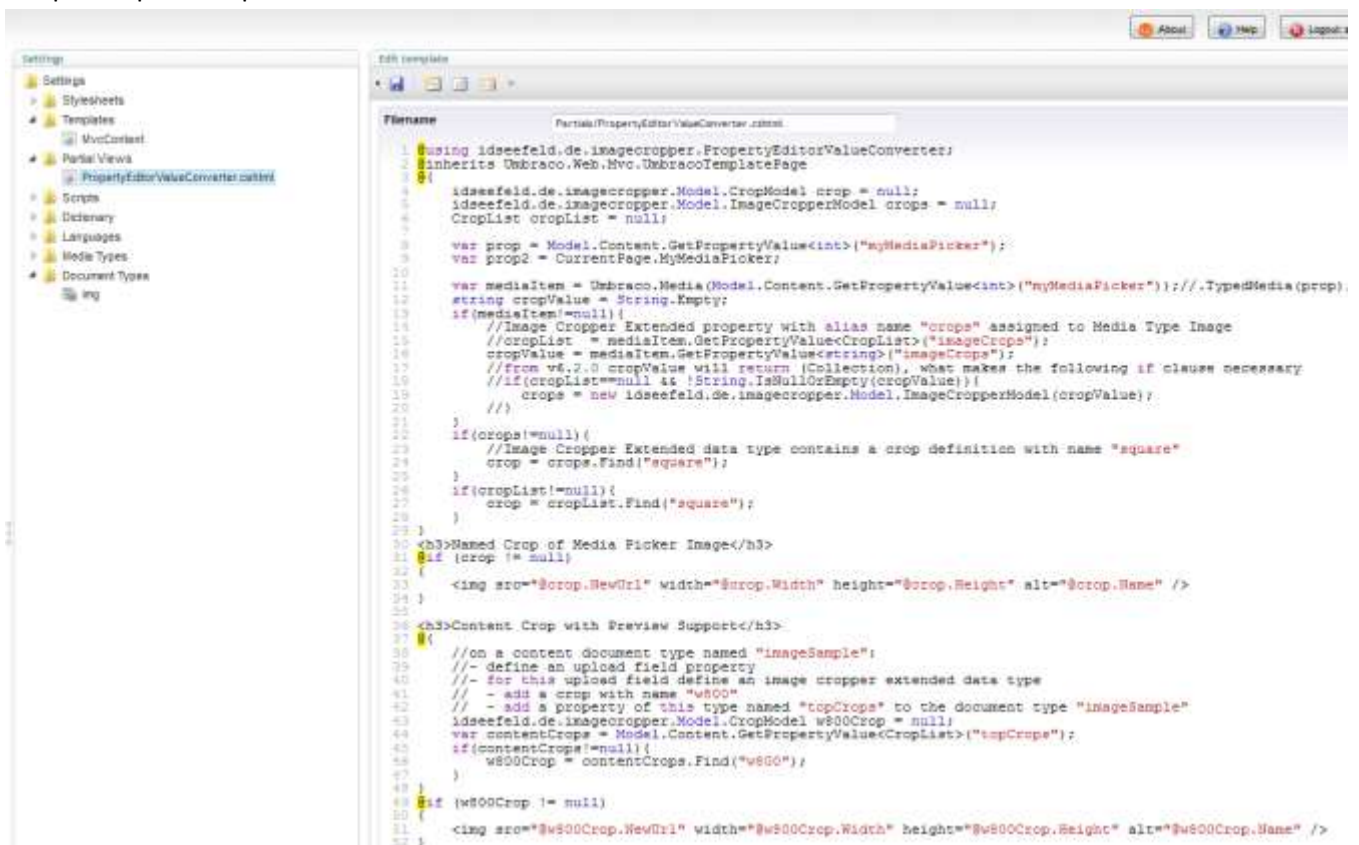
8. Create a node of the *img* document type and choose an image with the media Picker and insert one into the rich text editor.



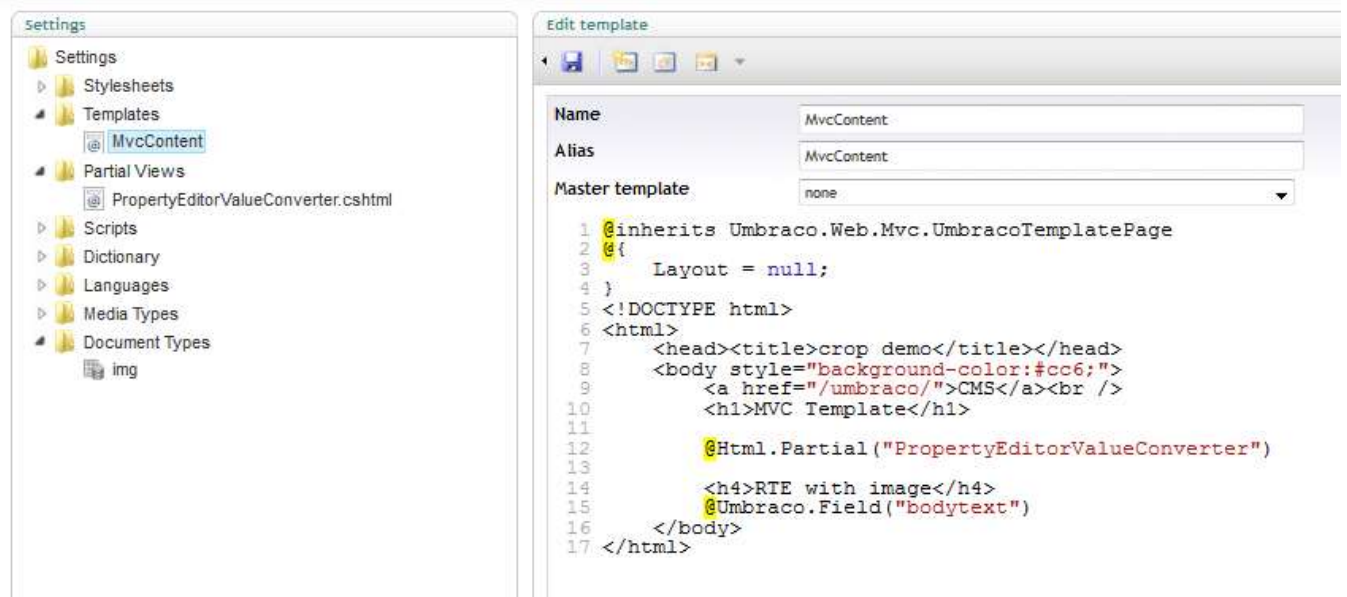
9. Upload another image with the upload, adjust the associated cropper and save & publish the node.



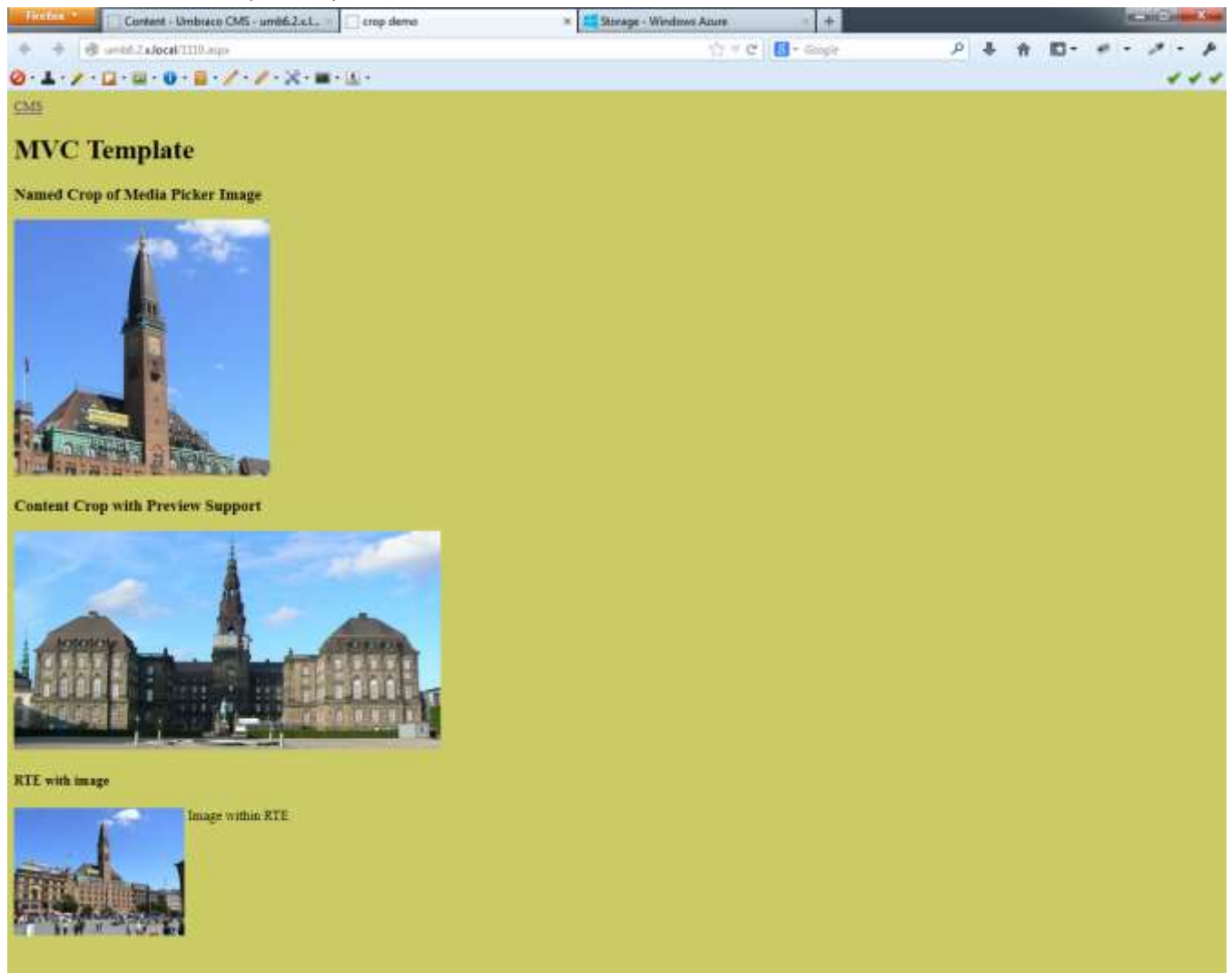
10. Sample scripts for a partial view ...



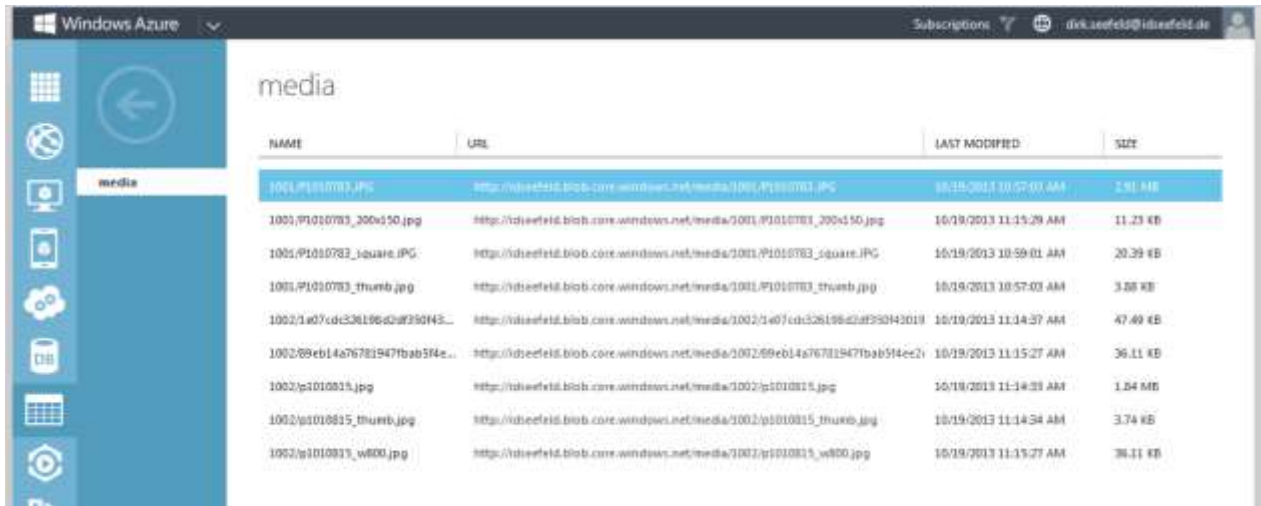
... and one for the MVC template, available in the documentation section of the [package download page](#).



11. Result view of the sample template.



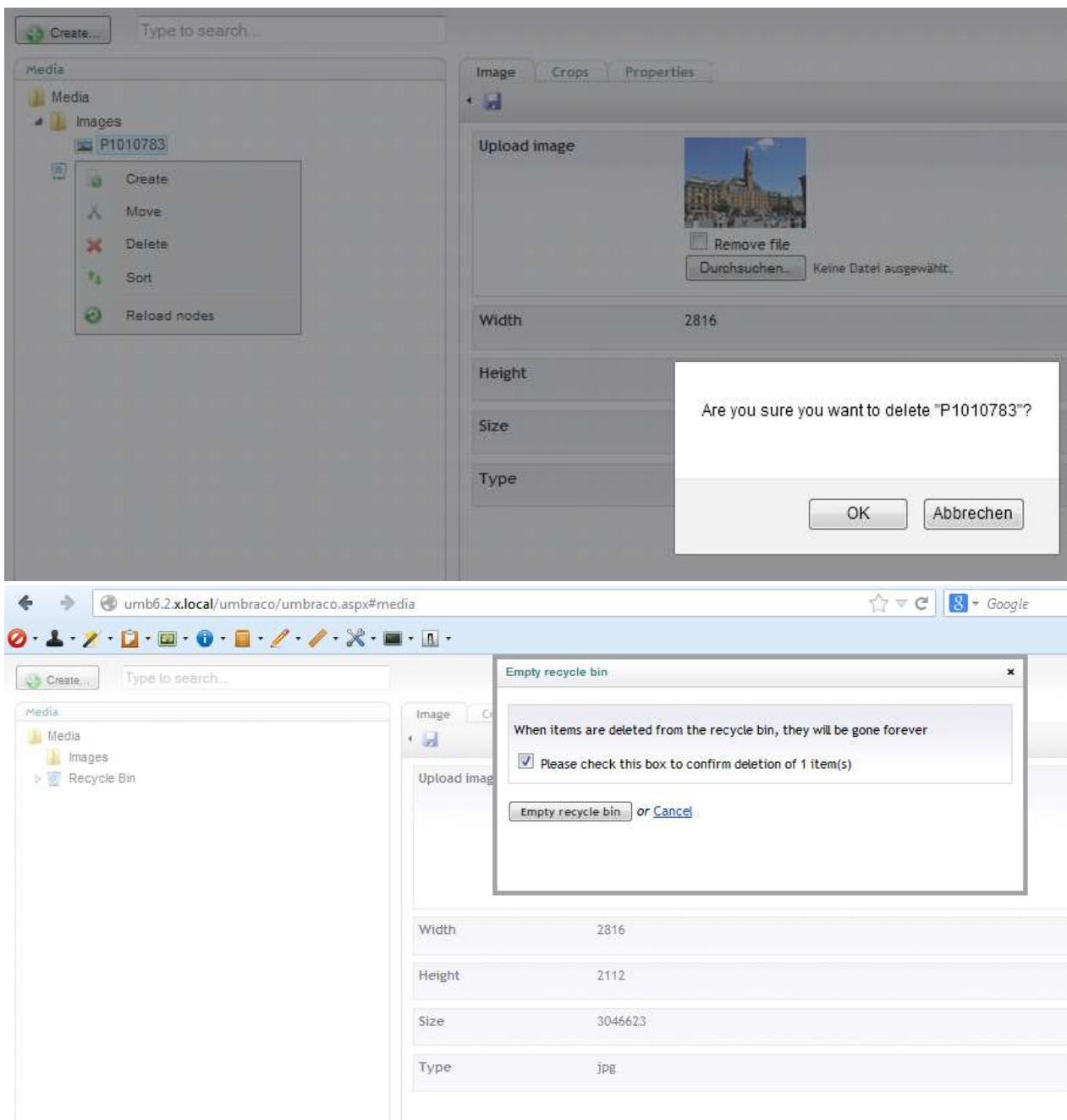
12. List of uploaded files.



The screenshot shows the Windows Azure Media gallery interface. On the left is a navigation pane with icons for various services. The main area displays a table of media items under the heading 'media'.

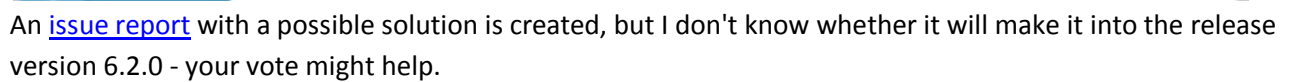
NAME	URL	LAST MODIFIED	SIZE
1001/P1010783.JPG	http://idsefeld.blob.core.windows.net/media/1001/P1010783.JPG	10/19/2013 10:57:01 AM	2.91 MB
1001/P1010783_200x150.jpg	http://idsefeld.blob.core.windows.net/media/1001/P1010783_200x150.jpg	10/19/2013 11:15:29 AM	11.23 KB
1001/P1010783_square.JPG	http://idsefeld.blob.core.windows.net/media/1001/P1010783_square.JPG	10/19/2013 10:59:01 AM	20.39 KB
1001/P1010783_thumb.jpg	http://idsefeld.blob.core.windows.net/media/1001/P1010783_thumb.jpg	10/19/2013 10:57:03 AM	3.06 KB
1002/1a07cd336196d0f350143...	http://idsefeld.blob.core.windows.net/media/1002/1a07cd336196d0f350143019	10/19/2013 11:14:37 AM	47.49 KB
1002/89eb14a76781947fbab514e2...	http://idsefeld.blob.core.windows.net/media/1002/89eb14a76781947fbab514e21	10/19/2013 11:15:27 AM	36.11 KB
1002/p1010815.jpg	http://idsefeld.blob.core.windows.net/media/1002/p1010815.jpg	10/19/2013 11:14:33 AM	1.84 MB
1002/p1010815_thumb.jpg	http://idsefeld.blob.core.windows.net/media/1002/p1010815_thumb.jpg	10/19/2013 11:14:34 AM	3.74 KB
1002/p1010815_w800.jpg	http://idsefeld.blob.core.windows.net/media/1002/p1010815_w800.jpg	10/19/2013 11:15:27 AM	36.11 KB

13. Delete a media item.



The screenshot shows the Umbraco media management interface. On the left, a tree view shows the 'Media' folder expanded, with 'Images' and 'Recycle Bin' subfolders. A context menu is open over the 'P1010783' image, showing options like 'Create', 'Move', 'Delete', 'Sort', and 'Reload nodes'. The 'Delete' option is selected. On the right, the 'Image' tab is active, showing a preview of the image. Below the preview, the image's dimensions (Width: 2816, Height: 2112) and size (3046623) are displayed. A confirmation dialog box is open, asking 'Are you sure you want to delete "P1010783"?'. The dialog has 'OK' and 'Abbrechen' buttons. Below the dialog, an 'Empty recycle bin' dialog is also visible, with a checkbox to confirm deletion of 1 item(s) and buttons for 'Empty recycle bin' and 'Cancel'.

But you can empty the whole recycle bin and all trashed items will be deleted in Azure storage.



Until version 1.0.5 there was a bug that lead to doubled directory names (actually numbers starting with 1001) for different uploads. In case of deleting an item this actually deletes the whole directory, as this is assumed unique for only one item and siblings like thumbnails for images.

Version 1.0.8 writes a control file to the repository with the number of the latest existing media directory in case you have data from a previous version. Otherwise, it contains 0. This prevents “old” incorrectly named blobs from deletion. Of course, this is only a work-a-round. However, it is the best solution I could figure out so far.